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THE COLONIZATION OF PARASITES OF THE EUROPEAN CORN
BORER IN THE UNITED STATES IN 1945 ^{1/}

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During the 1945 season 233,146 adult parasites of the European corn borer were released in the United States. The six species released were: Lydella stabulans var. grisea R. D., Inareolata punctoria Roman, Phaeogenes nigridentis Wesm., Chelonus annulipes Wesm., Macrocentrus gifuensis Ashm., and Eulophus viridulus Thoms. The first five species listed were obtained from collections of host insects made in the Eastern States where these exotic parasites are now well established and abundant. E. viridulus was received through the courtesy of the Dominion Parasite Laboratory at Belleville, Ontario, Canada.

Releases of parasites were made in the following 14 States: Delaware, Illinois, Indiana, Iowa, Kentucky, Maryland, Minnesota, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Virginia, and Wisconsin. Table 1 summarizes the total releases of each of the six species in the various States.

The parasite liberations made in 1945 bring the total numbers of exotic parasites released in the United States, as an aid in control of the European corn borer, from the inception of this work to date to 6,825,110. Table 2 summarizes all of these releases to December 31, 1945.

^{1/} Financial aid to assist in the conduct of the parasite program was contributed by the following State agencies: The State Department of Agriculture of Iowa, and the agricultural experiment stations of Indiana, Delaware, and Maryland. The Illinois Natural History Survey assisted in the collection work by the temporary assignment of a member of their staff to this project. The following State agencies assisted in their respective States in the release of parasites: The agricultural experiment stations of Delaware, Indiana, Iowa, Kentucky, Maryland, New York, Ohio, and Wisconsin; the Illinois Natural History Survey, and State departments of agriculture of Iowa, Minnesota, New Jersey, and Virginia; and the Virginia Truck Experiment Station.

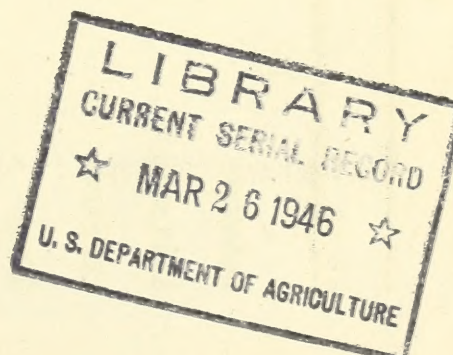


Table 1.--Releases of parasites of the European corn borer, 1945

State	Macrocentrus gifuensis	Lydella grisea	Inareolata punctoria	Chelonus annulipes	Eulophus viridulus	Phaeogenes nigridens	Total released
	Number	Number	Number	Number	Number	Number	Number
Delaware	17,461	-	990	1,408	-	-	19,859
Illinois	30,035	2,342	931	488	-	-	33,796
Indiana	26,545	1,917	496	-	-	-	28,958
Iowa	46,602	5,368	5,110	1,494	5,536	500	64,610
Kentucky	-	463	-	-	-	-	463
Maryland	25,971	3,489	498	999	-	-	30,957
Minnesota	5,950	496	-	-	1,700	-	8,146
New Jersey	11,404	495	-	153	-	-	12,052
New York	12,631	464	-	-	-	-	13,095
North Carolina	2,073	-	-	-	-	-	2,073
Ohio	-	479	-	-	-	-	479
Pennsylvania	3,689	993	-	-	-	-	4,682
Virginia	7,733	955	97	-	-	-	8,785
Wisconsin	2,858	-	483	-	1,850	-	5,191
Total	192,952	17,461	8,605	4,542	9,086	500	233,146

Table 2.--Total releases of imported species of parasites of the European corn borer in the United States to December 31, 1945

State	Apanteles sp.	Apanteles thompsoni Lyle	Aplomya mitis Meigs.	Bracon atricornis (Smith)	Camponotus multiseptus Grav.	Camponotus pyrausta Smith	Chelonus annulipes Wesm.	Oremastus flavo-orbitalis Cameron	Eulimneria albae (Hill. & Sachl.)	Eulophus viridulus Thoms.	Exeristes roborator Fab.
Connecticut	-	21,268	178	12	-	1	54,105	1,483	1,057	17,200	-
Delaware	-	-	-	-	-	-	1,903	-	-	-	-
Illinois	-	-	-	-	-	-	1,085	-	-	-	2,302
Indiana	-	5,700	8	-	-	-	6,735	-	5,161	6,671	22,905
Iowa	-	-	-	-	-	-	1,984	-	-	5,536	-
Kentucky	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	2,980	-	-	-	-
Massachusetts	388	69,139	514	127	1,129	1,697	16,010	6,762	28,526	84,786	54,957
Michigan	-	34,837	395	-	-	-	6,363	-	24,075	44,037	86,607
Minnesota	-	-	-	-	-	-	-	-	-	1,700	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	9,585	1,192	-	-	-
New York	3	51,106	463	-	61	16	137,821	1,109	9,279	55,755	40,050
North Carolina	-	-	-	-	-	-	-	-	-	-	-
Ohio	-	52,505	1,664	-	357	38	22,952	5,145	36,398	101,648	87,826
Pennsylvania	-	5,774	20	-	-	-	-	-	550	-	20,119
Rhode Island	-	11,756	188	211	123	47	7,523	1,014	4,636	7,446	-
Vermont	-	-	-	-	-	-	6,982	-	-	-	-
Virginia	-	-	-	-	-	-	11,388	2,971	-	-	-
Wisconsin	-	-	-	-	-	-	701	-	-	1,850	-
Total	391	252,085	3,430	350	1,670	1,799	288,117	19,676	109,682	326,629	314,766

Table 2.--(Continued)

State	Inaeolata	punctoria	Roman	Lydella	stabulans var.	grisescens	R. D.	Macrocentrus	lituensis	Meteorus	nigricollis	Thoms.	Microbraccon	brevicornis	Wesm.	Microgaster	tibialis	Nees.	Nemorilla	floralis	Fall.	Phaeogenes	nigridens	Wesm.	Phorocera	erecta	Cog.	Pseudopatrachaela	roseanae	B. and B.	Total
Connecticut	6,882			42,723				23,970					4,952			7,101			533			1,620			193			7,754			191,032
Delaware	2,472			2,786				64,126																							71,287
Illinois	2,855			9,215				76,251					3,635																		95,343
Indiana	8,563			29,226				70,635					105,109				8,985												8,526		278,224
Iowa	8,243			13,458				168,717														500									198,438
Kentucky	488			963				10,230																							11,681
Maine				1,927																											1,927
Maryland	4,152			14,644				87,348					1,616																		110,740
Massachusetts	30,938			92,087				82,444					1,084,590				84,689			371					844			64,755			1,726,638
Michigan	11,987			121,219				40,790					534,334				81,747											17,896			1,008,220
Minnesota				496				5,950																							8,146
New Hampshire	593			5,569																											6,162
New Jersey	3,297			9,111				80,198					11,857				1,809														121,0861/
New York	16,545			123,117				89,325					354,265				34,752									4		29,743			943,983
North Carolina				902				5,925																							6,827
Ohio	44,551			218,908				141,787					587,583				138,585			843					499			32,334			1,481,929
Pennsylvania	1,791			13,579				85,729					127,305				6,842												3,800		265,856
Rhode Island	14,572			35,293				39,182			8						19,740												9,305		163,081
Vermont	2,279			9,813																											19,074
Virginia	4,325			8,148				54,292					5,157				3,199														89,480
Wisconsin	1,720			3,118				18,567																							25,956
Total	166,253			756,302				1,145,466			8		2,820,403				387,449			1,747			53,234			1,540		174,113			6,825,110

1/ 20 adults of *Bassus agilis* Cress. and *Labrorynchus prismaticus* Norb., both native species, were also released in New Jersey.